

10/799,935

BEST AVAILABLE COPYIN THE CLAIMS

1-174. (canceled)

175. (original) CLC-based toner for use in xereographically printing images upon the surface of a substrate having radiation absorption characteristics, and which are capable of producing color effects within the vision system of a human viewer, said CLC-based toner comprising: a distribution of reflective microflakes, each said reflective microflake being made from cholesteric liquid crystal material having light reflection characteristics in over at least a portion of the visible band, and being electrostatically attracted to an electric charge pattern formed on said substrate during an image recording process.

176. (original) The CLC-based toner of claim 175, wherein each said reflective microflake in said distribution has an upper and lower surface, and that the reflection characteristics of said upper surface is substantially the same as the reflection characteristics of said lower surface over the visible band of said electromagnetic spectrum.

177. (original) The CLC-based toner of claim 175, wherein said reflective microflakes have spectrally-tuned reflection characteristics over the visible band of the electromagnetic spectrum and reflect, in a specular manner, light within said visible band falling incident upon a coating of said CLC toner so as to produce a spectrum of additive-primary color effects within the vision system of a human viewer.

10/799,935

178. (original) The CLC-based toner of claim 176, wherein each said reflective microflake comprises first and second layers of material laminated together, wherein said upper surface is physically associated with said first layer and said lower surface is physically associated with said second layer.

179. (original) The CLC-based toner of claim 175, wherein each said reflective microflake is made from film material having a cholesterically ordered liquid crystal molecules having a pitch which varies in a non-linear manner across the thickness of each said reflective microflake.

180. (original) The CLC-based toner of claim 175, wherein each said reflective microflake is made from film material having a cholesterically ordered liquid crystal molecules having a pitch which varies in an exponential manner across the thickness of each said reflective microflake.

181. (original) The CLC-based toner of claim 175, wherein each said reflective microflake is made from materials having a cholesterically ordered liquid crystal molecules having a constant or substantially constant pitch.

182. (original) The CLC-based toner of claim 175, wherein said reflective microflakes have broadband reflection characteristics over the visible band of the electromagnetic spectrum so as to reflect, in a specular manner, circularly polarized light within said visible band falling incident upon a coating of said CLC-based toner so as to produce

10/799,935

super-white color effects independent of viewing angle within the vision system of a human viewer.

183. (original) The CLC-based toner of claim 175, wherein each said reflective microflake comprises a layer of adhesive for permanently adhering said reflective microflakes to said substrate.

184. (original) The CLC-based toner of claim 175, which further comprises adhesive material admixed with said distribution of said reflective microflakes for permanently adhering said reflective microflakes to said substrate during an image fixing stage of said xerographic process.

185. (original) A xerographic printing machine comprising: a toner cartridge containing the CLC-based toner of claim 175.

186. (original) A xerographically printed image formed using the CLC-based toner of claim 175.

187. (original) A toner cartridge for use in a xerographic printing machine, said toner cartridge comprising: the CLC-based toner of claim 175.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ BLACK BORDERS

☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

☐ FADED TEXT OR DRAWING

☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING

☐ SKEWED/SLANTED IMAGES

☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS

☐ GRAY SCALE DOCUMENTS

☐ LINES OR MARKS ON ORIGINAL DOCUMENT

☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.